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Tuesday, June 28, 2005

Case Serial Number: 09/951765

From: Etelka R. Griffin  
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KNOX/4B68  
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*Changed from 10/667060*

Search Notes

Pat#6546830

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#)   
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951765 (09) 6546830 April 15, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**6546830**

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April 15, 2003

Transmission device of four-wheel drive vehicle

**APPL-NO:** 951765 (09)

**FILED-DATE:** September 13, 2001

**GRANTED-DATE:** April 15, 2003

**CORE TERMS:** shaft, gear, drive, input, rear, driven, counter, driving force, reduction, transmitted ...

**ENGLISH-ABST:**

A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#) 

Terms: [patno=6546830](#) ([Edit Search](#))

View: [Custom](#)

Segments: Abst, Date, English-abst, Granted-date, Reissue-comment

Date/Time: Tuesday, June 28, 2005 - 3:37 PM EDT

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1 / 1 PLUSPAT - QUESTEL-ORBIT - image

**Patent Number :**  
US2002066324 A1 20020606 [US20020066324]

**Patent Number 2 :**  
US6546830 B2 20030415 [US6546830]

**Title :**  
(A1) Transmission device of four-wheel drive vehicle

**Patent Assignee :**  
(A1) FUJI HEAVY IND LTD (JP)

**Patent Assignee :**  
Fuji Jukogyo Kabushiki Kaisha, Tokyo [JP]

**Patent Assignee 2 :**  
(B2) FUJI HEAVY IND LTD (JP)

**Inventor(s) :**  
(A1) KANAZAWA KAZUO (JP)

**Application Nbr :**  
US95176501 20010913 [2001US-0951765]

**Priority Details :**  
JP2000280602 20000914 [2000JP-0280602]

**Intl Patent Class :**  
(A1) F16H-037/00 F16H-037/16

**EPO ECLA Class :**  
B60K-017/344  
B60K-017/35B1  
B60K-023/08B

**US Patent Class :**  
CROSS-REFERENCE (X) : 074333000

**Document Type :**  
Corresponding document

**Citations :**  
US4208923; US5123293; US5640882; US5947218; US6044720; US6332371;  
JP7-167257; JP362178429

**Publication Stage :**  
(A1) Utility Patent Application published on or after January 2, 2001

**Publication Stage 2 :**  
(B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001

**Abstract :**  
A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

**Update Code :**  
2002-25

1 / 1 LGST - OEPO

**Patent Number :**  
US2002066324 A1 20020606 [US20020066324]  
US6546830 B2 20030415 [US6546830]

**Application Number :**  
US95176501 20010913 [2001US-0951765]

**Action Taken :**  
20020111 US/AS-A

**ASSIGNMENT**

OWNER: FUJI JUKOGYO KABUSHIKI KAISHA 7-2, NISHISHINJUKU 1; EFFECTIVE  
DATE: 20011228

1 / 1 INPADOC - @INPADOC  
**Patent Number :**  
US 6546830 BB 20030415 [US6546830]  
**Title :**  
TRANSMISSION DEVICE OF FOUR-WHEEL DRIVE VEHICLE  
**Inventor(s) :**  
KANAZAWA KAZUO [JP]  
**Patent Assignee (Words) :**  
FUJI HEAVY IND LTD [JP]  
**Application Details :**  
US 951765/01-A 20010913 [2001US-0951765]  
**Priority Details :**  
JP 2000280602/00-A 20000914 [2000JP-0280602]  
**Intl. Patent Class. :**  
F16H-037/06; F16H-003/08

1 / 1 LGST - @EPO  
**Patent Number :**  
US2002066324 A1 20020606 [US20020066324]  
US6546830 B2 20030415 [US6546830]  
**Application Number :**  
US95176501 20010913 [2001US-0951765]  
**Action Taken :**  
20020111 US/AS-A  
ASSIGNMENT  
OWNER: FUJI JUKOGYO KABUSHIKI KAISHA 7-2, NISHISHINJUKU 1; EFFECTIVE  
DATE: 20011228  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KANAZAWA,  
KAZUO;REEL/FRAME:012472/0357  
  
20031216 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20030908  
**Update Code :**  
2004-41

1 / 1 CRXX - @CLAIMS/RRX  
**Patent Number :**  
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**Patent Assignee :**  
Fuji Jukogyo K K JP  
**Actions :**  
20030908 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20031216  
REISSUE REQUEST NUMBER: 10/657060  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3681

Reissue Patent Number:

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## Patent Search - Number: 6546830

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(Charges for search still apply)

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